

## DISCOVER-AQ

### HSRL Data Summary

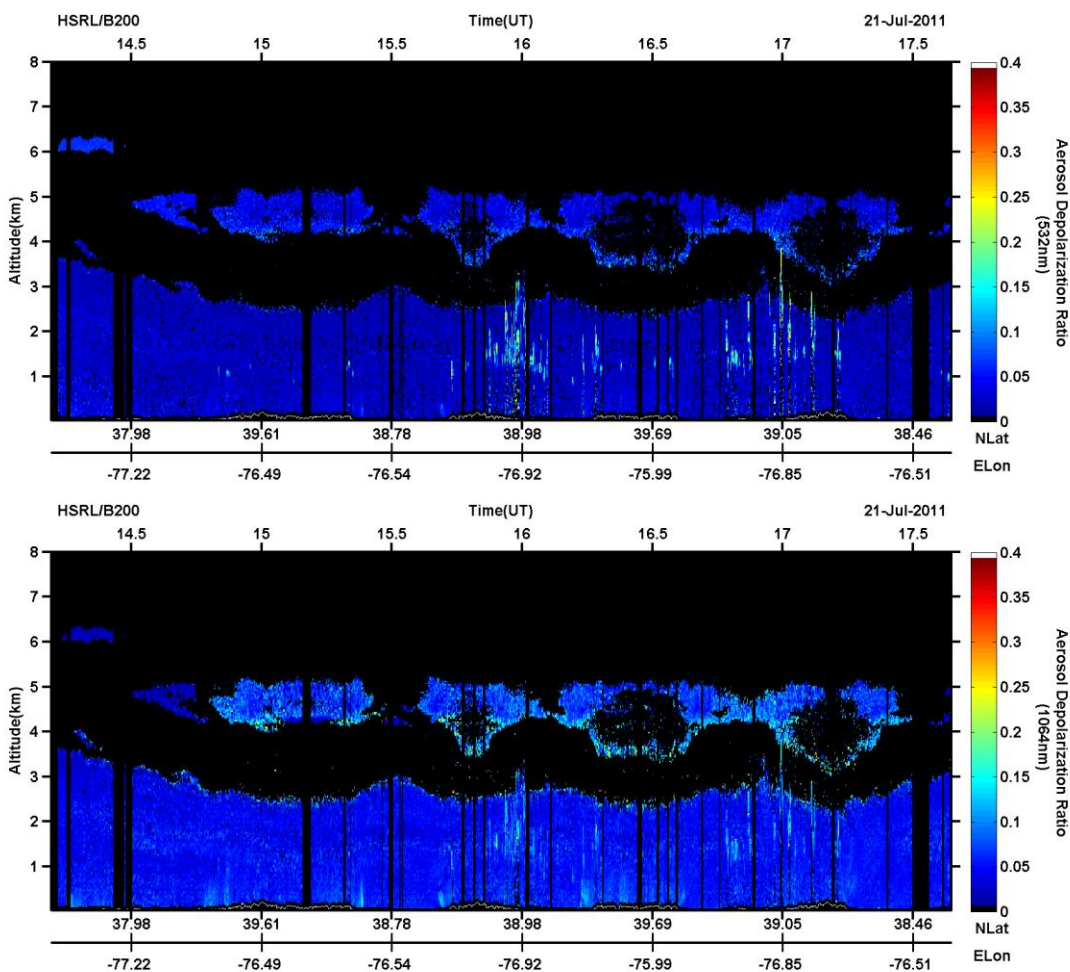
FLIGHT: Morning science flight (1 of 2)

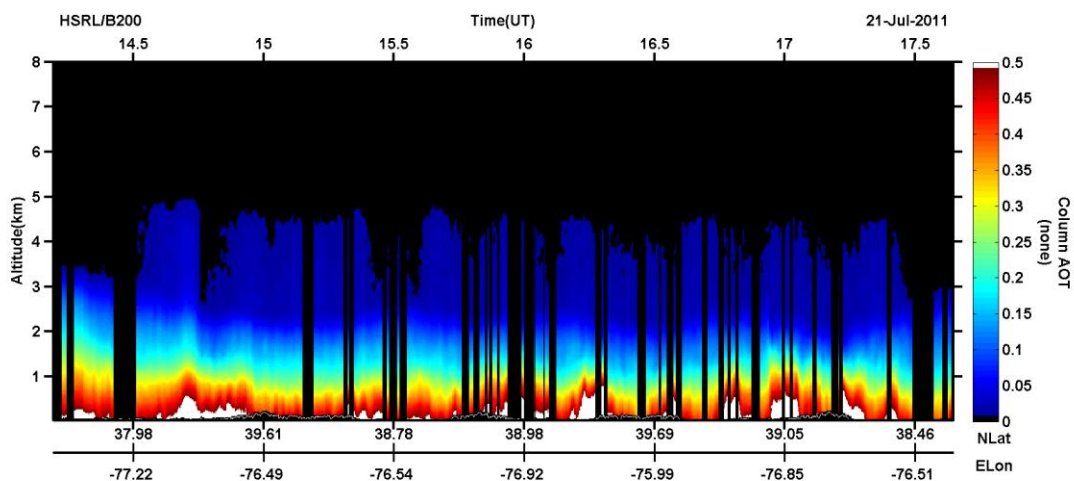
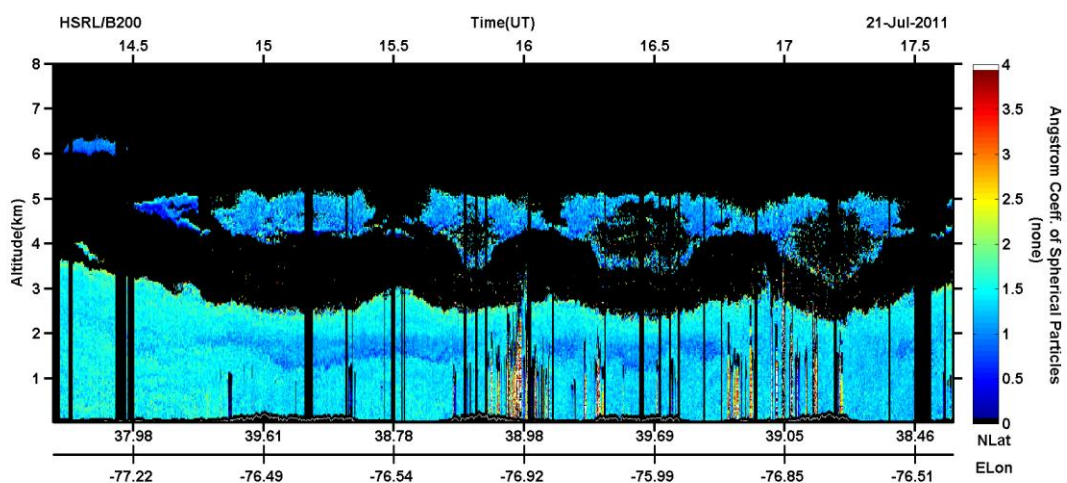
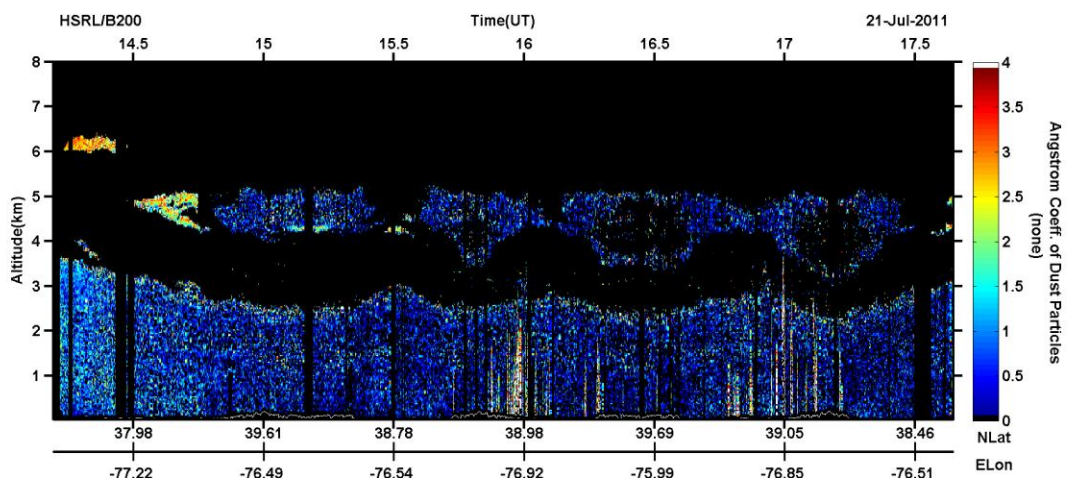
DATE: July 21, 2011

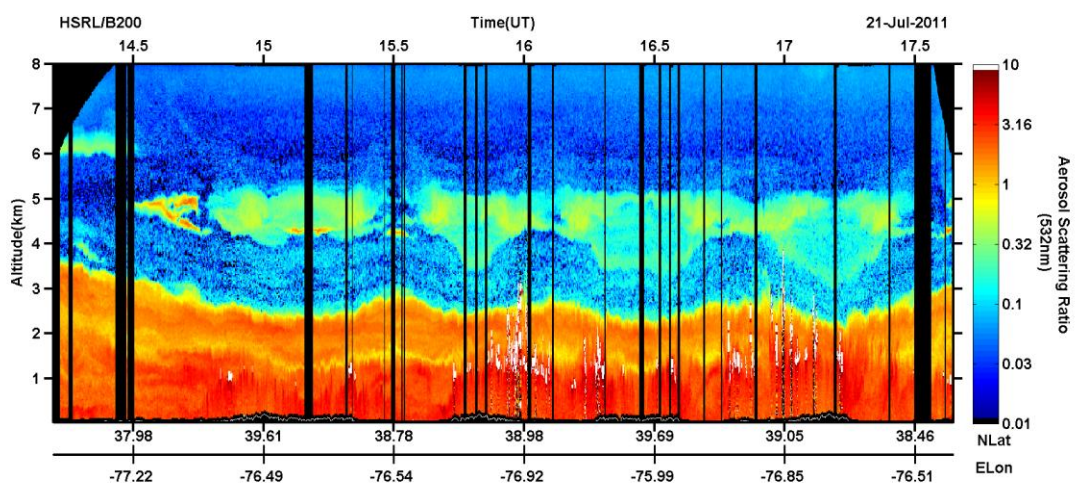
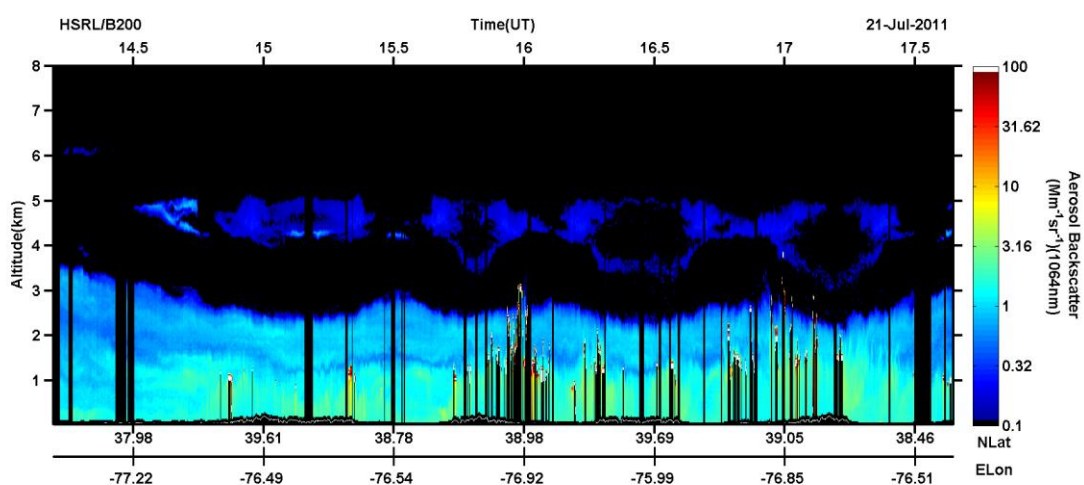
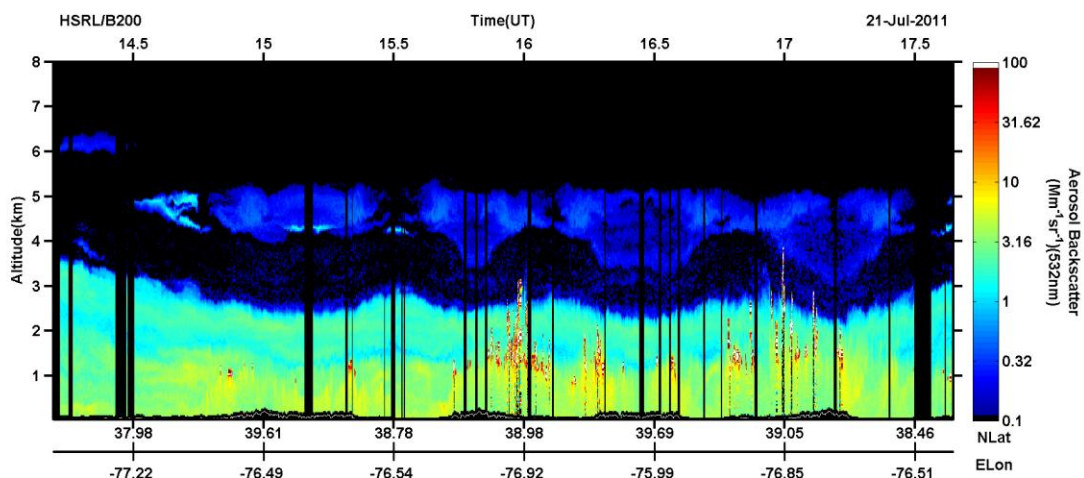
DURATION: 3.9 hours

SUMMARY: Takeoff was at 10:00 AM local time from Newport News, VA. HSRL operation was nominal. Hot, humid, and hazy conditions were present. The boundary layer depth ranged up to about 3 km and a lofted aerosol layer was present at about 5 km. The normal flight pattern was flown.

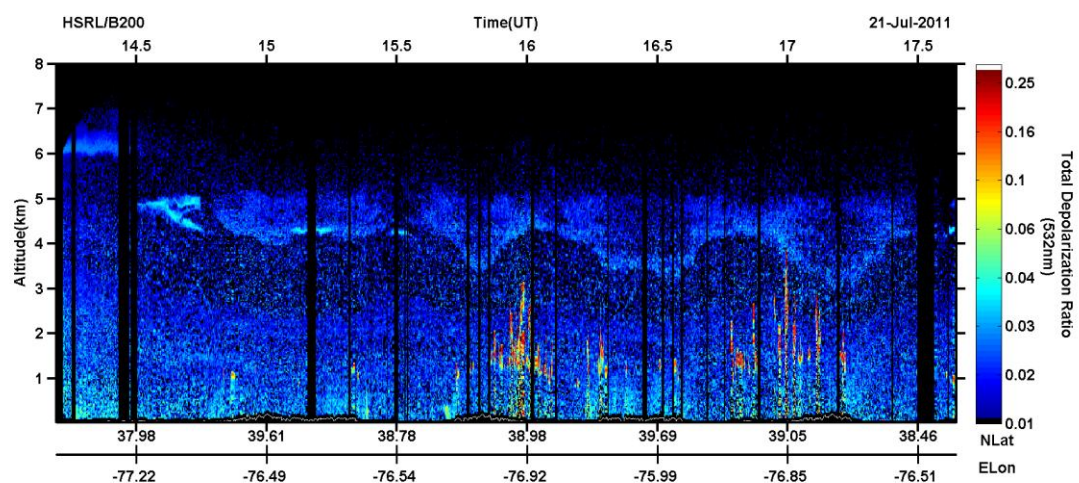
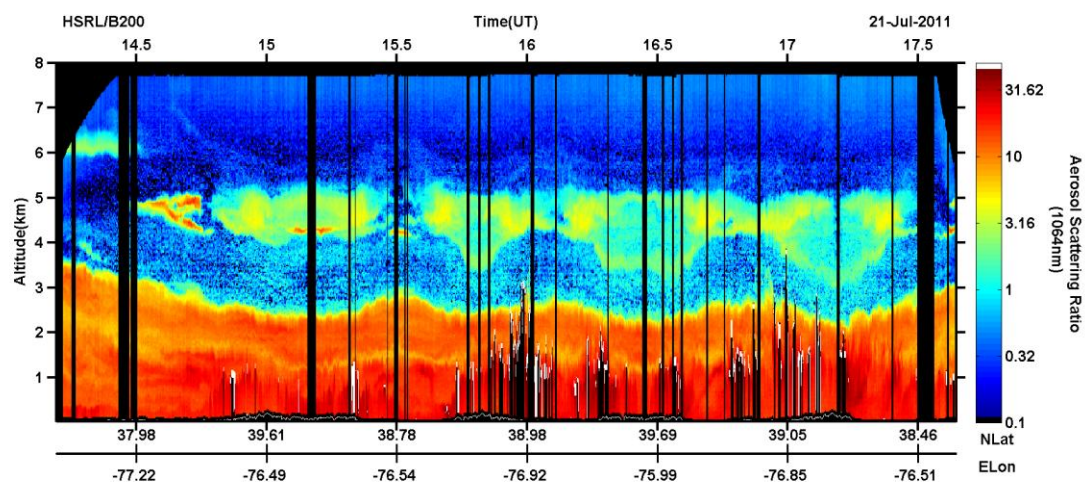
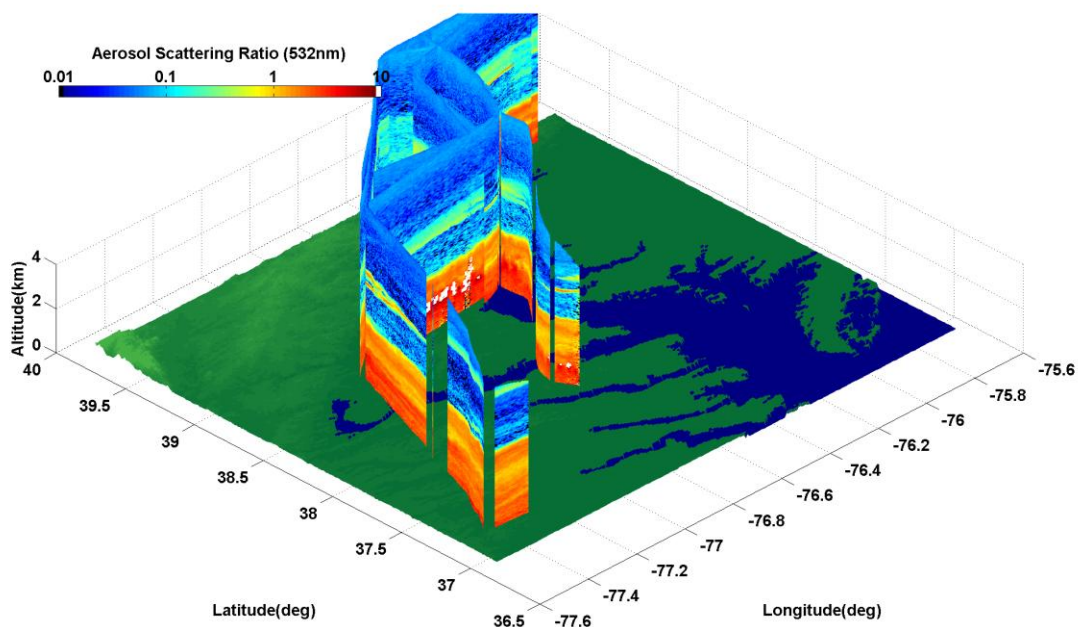
SUMMARY PLOTS:

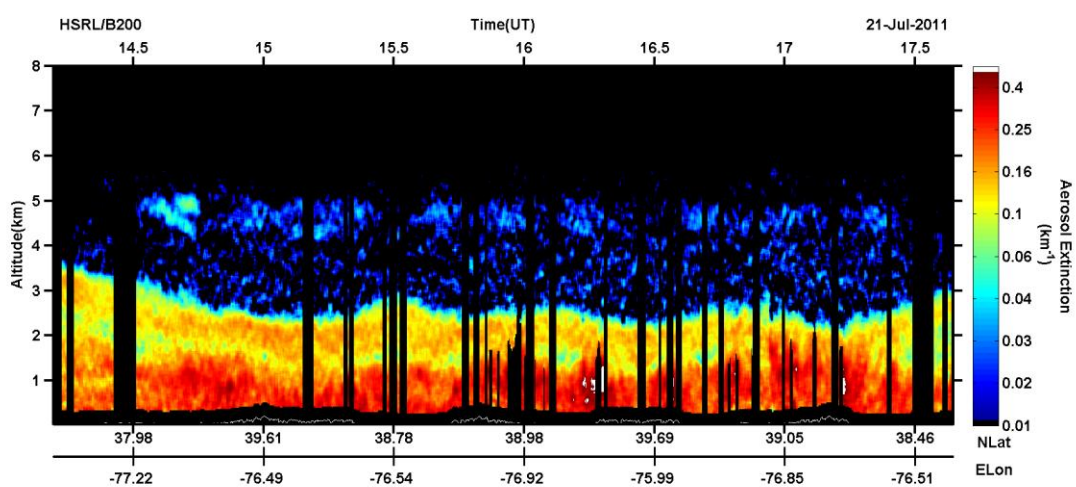
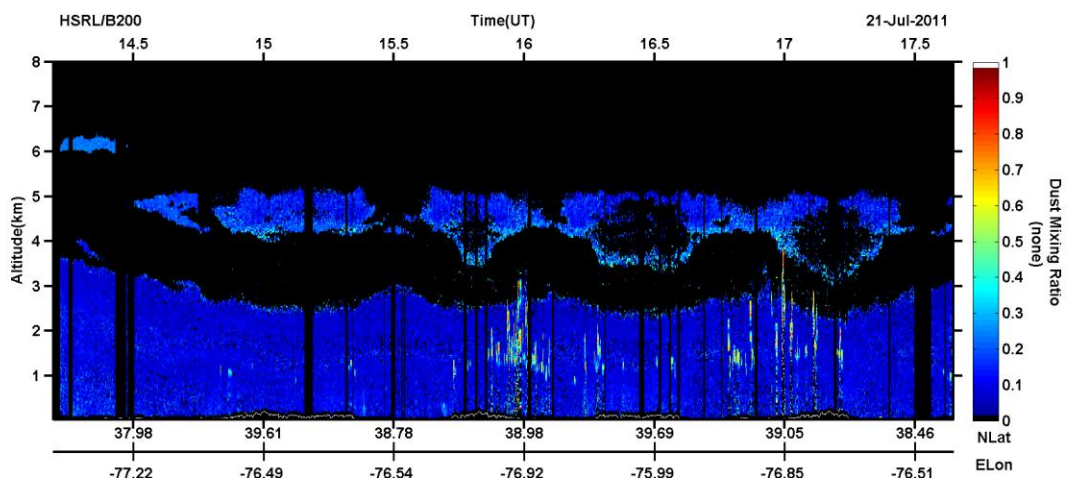




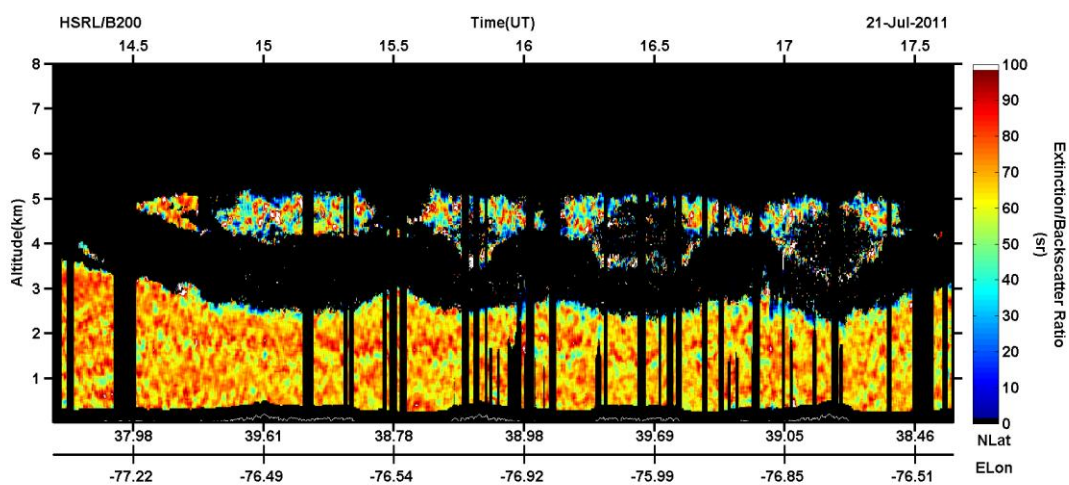
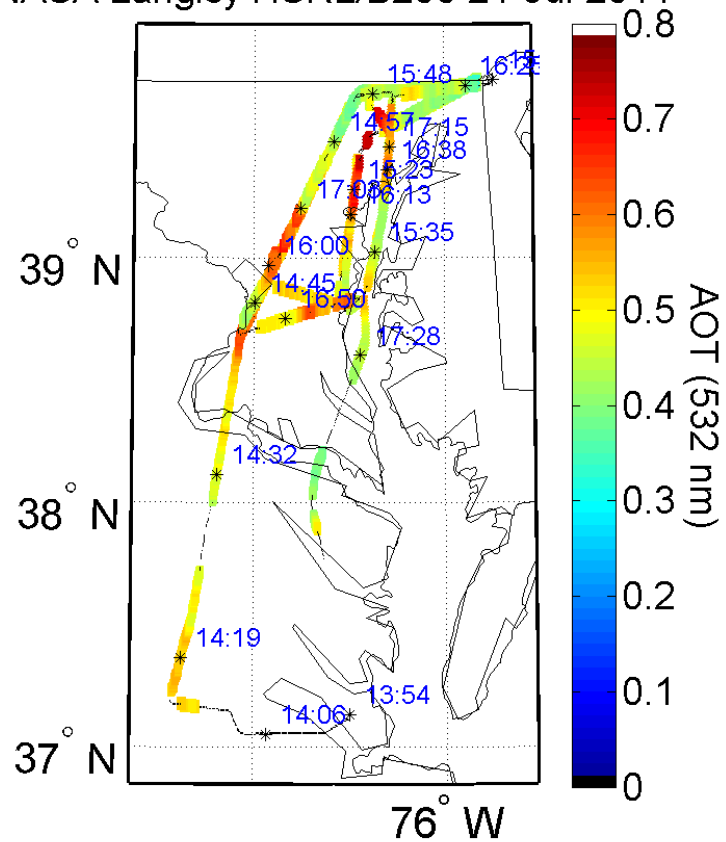




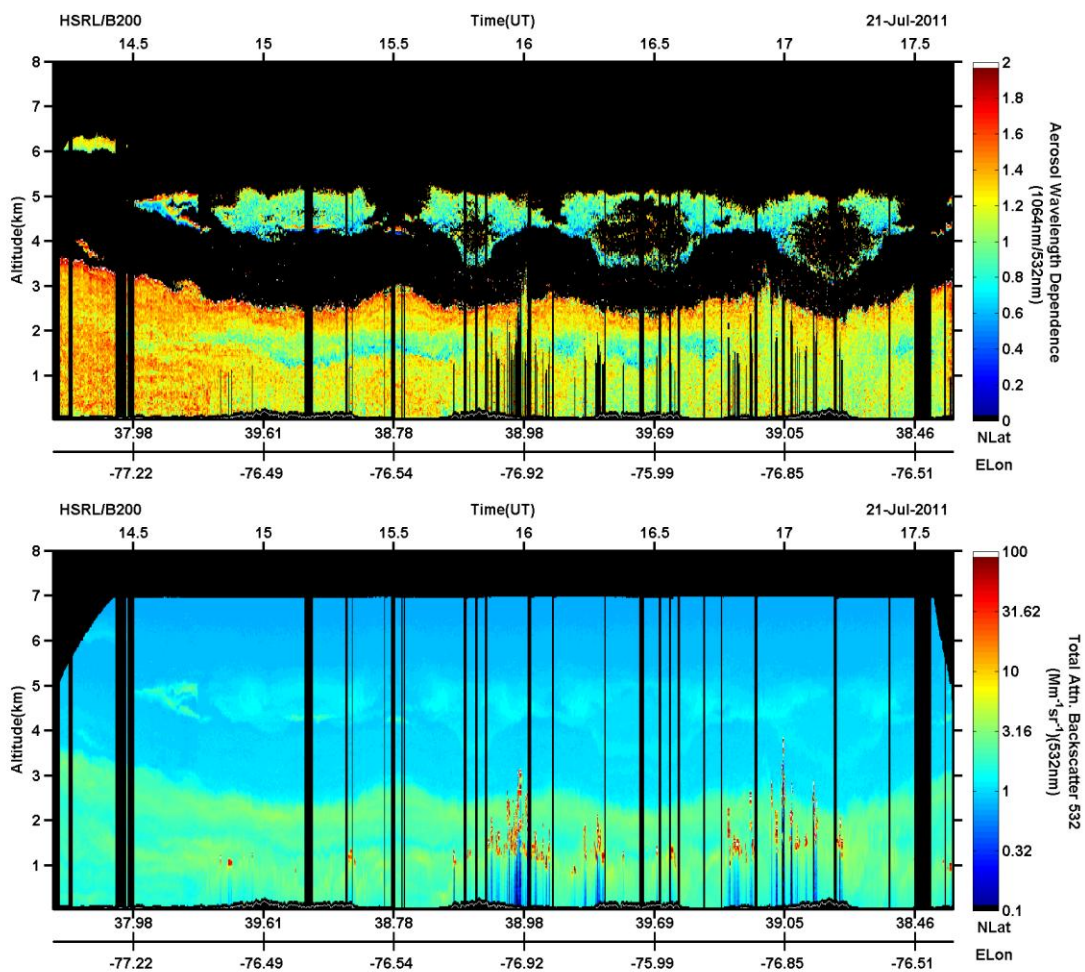


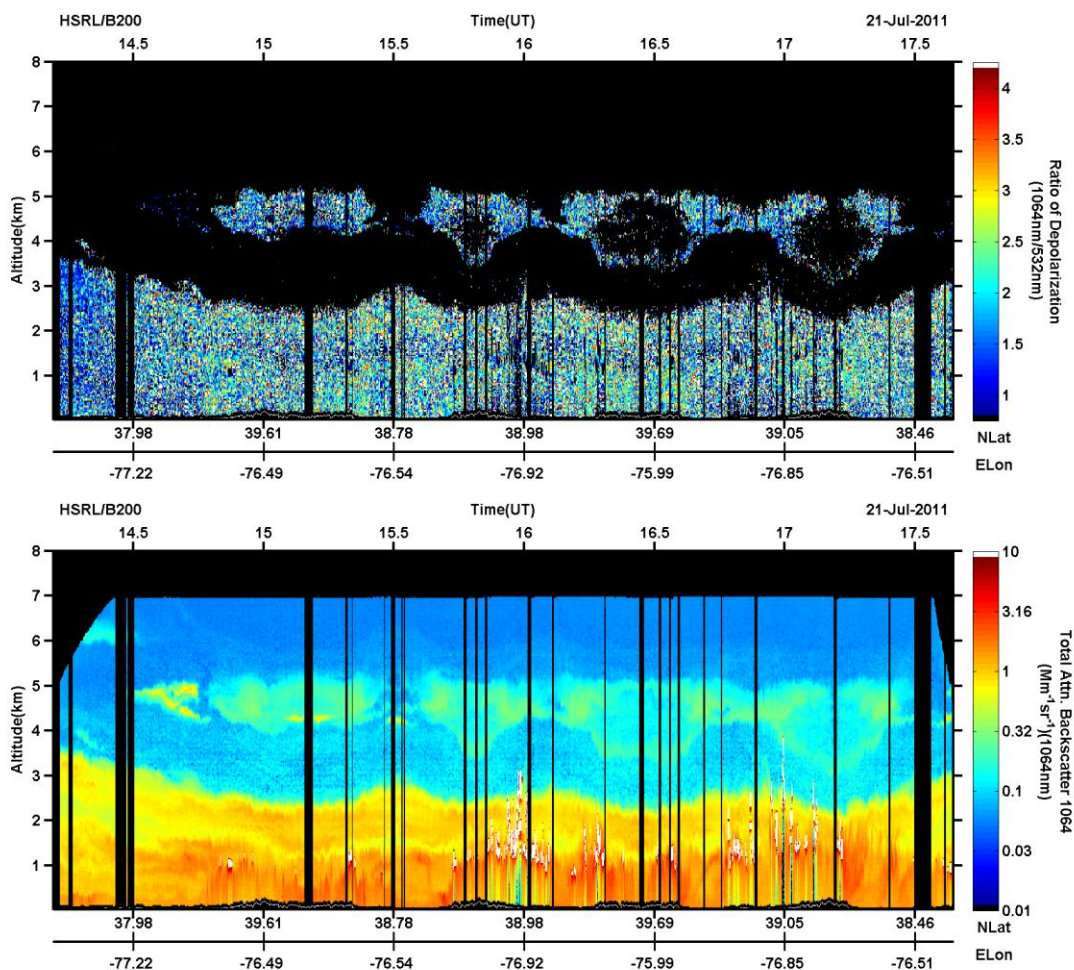


# NASA Langley HSRL/B200 21-Jul-2011









FLIGHT: Afternoon science flight (2 of 2)

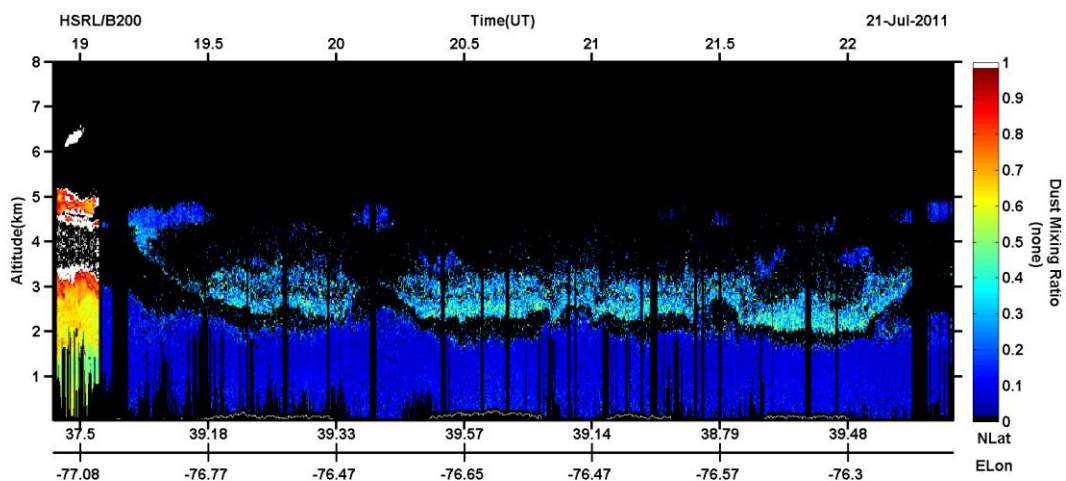
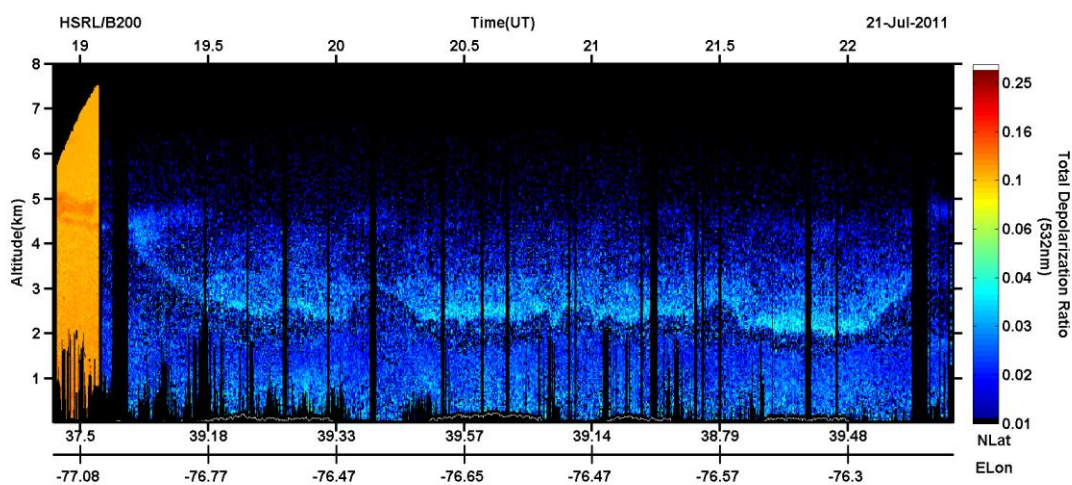
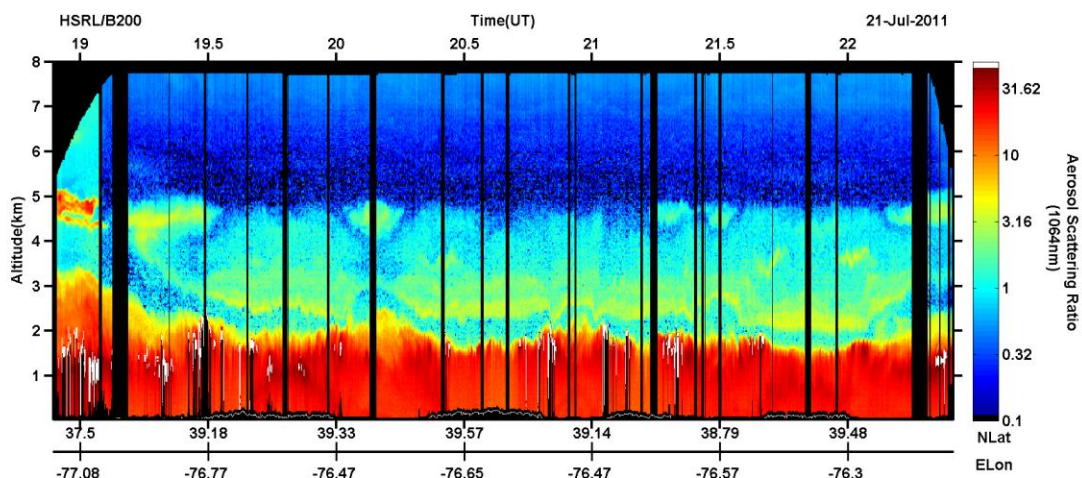
DATE: July 21, 2011

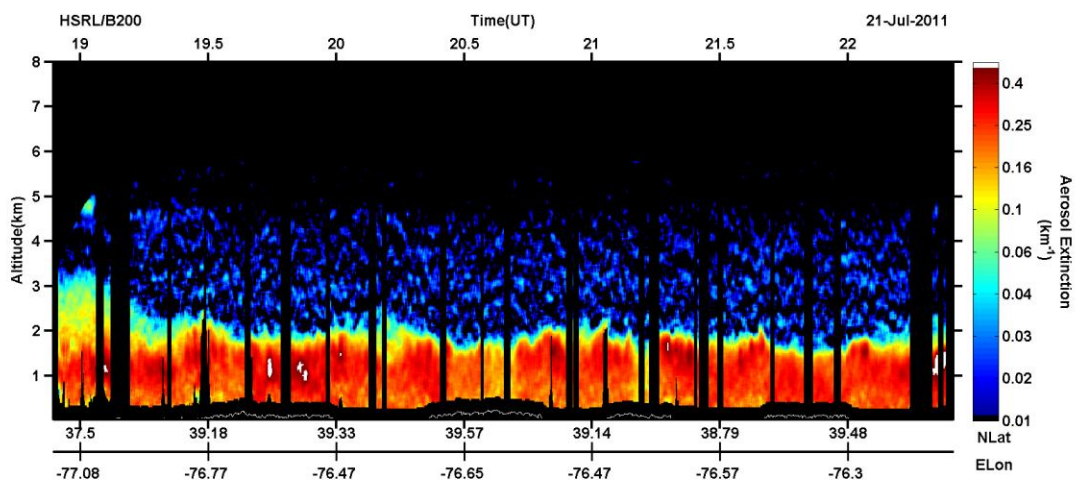
DURATION: 4.0 hours

SUMMARY: Takeoff was about 2:30 PM local time from Newport News, VA. HSRL operation was nominal. The alternate flight plan was flown involving an east-west raster pattern over the DC/Baltimore area. Hot, humid, and hazy conditions persisted from the morning flight. Boundary layer depths were up to about 2 km with a more rarified aerosol layer extending from the top of the boundary layer up to about 5 km. The data from the beginning of the flight to about 19.1 UTC should be disregarded.

SUMMARY PLOTS:







NASA Langley HSRL/B200 21-Jul-2011

